

under the surface management jurisdiction of an agency other than DOI, that other agency must concur with the approval terms of the exploration plan.

(2) *Resource recovery and protection plans.* No resource recovery and protection plan or modification thereto shall be approved which is not in conformance with the rules of this part, any Federal lease or license terms and/or conditions, and is not found to achieve MER of the Federal coal within an LMU or Federal lease issued or readjusted after August 4, 1976. The determination of MER shall be made by the authorized officer based on review of the resource recovery and protection plan. No resource recovery and protection plan shall be approved prior to the filing of a complete permit application package and unless the Federal lease bond, executed pursuant to the provisions of 43 CFR part 3474 has been determined by the authorized officer to be adequate.

(3) *Recoverable coal reserves estimates.* For all Federal coal leases issued or readjusted after August 4, 1976, the recoverable coal reserves or LMU recoverable coal reserves shall be those estimated by the authorized officer as of the date of approval of the resource recovery and protection plan, or the date of approval of any existing mining plan as defined at 30 CFR 740.5 (1981). If an operator/lessee credits production toward diligent development in accordance with §3483.5 of this title, such credits shall be included in the recoverable coal reserves or LMU recoverable coal reserves estimates. The estimate of recoverable coal reserves or LMU recoverable coal reserves may only be revised as new information becomes available. Estimates of recoverable coal reserves or LMU recoverable coal reserves shall not be reduced due to any production after the original estimate made by the authorized officer.

(b) *Changes in plans by authorized officer.* (1) Approved exploration plans may be required to be revised or supplemented at any time by the authorized officer, after consultation with the operator/lessee and the responsible officer of the surface managing agency as necessary, to adjust to changed condi-

tions, to correct oversights, or to reflect changes in legal requirements.

(2) The authorized officer, pursuant to MLA, may require approved resource recovery and protection plans to be revised or supplemented reasonably for modifications, after consultation with the operator/lessee and the regulatory authority as necessary, to adjust to changed conditions, to correct oversights, or to reflect changes in legal requirements. Such revisions shall be made in writing, as appropriate, and the authorized officer shall submit a copy to the regulatory authority.

(c) *Changes in plans by operator/lessee.*

(1) The operator/lessee may propose modifications to an approved exploration plan and shall submit a written statement of the proposed change and its justification to the authorized officer. The authorized officer shall promptly approve or disapprove in writing any such modifications, after consultation with the responsible officer of the managing agency and the regulatory authority as necessary, or specify conditions under which they would be acceptable.

(2) The operator/lessee may propose modifications to an approved resource recovery and protection plan for any requirements under MLA, and shall submit a written statement of the proposed change and its justification to the authorized officer. The authorized officer shall promptly approve or disapprove in writing any such modifications, after consultation with the regulatory authority as necessary, or specify conditions under which they would be acceptable. Upon approval of modifications, the authorized officer shall submit a copy to the regulatory authority.

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§ 3482.3 Mining operations maps.

(a) *General requirements.* Upon commencement of mining operations, the operator/lessee shall maintain accurate and up-to-date maps of the mine, drawn to scales acceptable to the authorized officer. Before a mine or section of a mine is abandoned, closed, or made inaccessible, a survey of the mine

or section shall be made by the operator/lessee and recorded on such maps. All excavations in each separate coal bed shall be shown in such a manner that the production of coal for any royalty reporting period can be accurately ascertained. Additionally, the maps shall show the name of the mine; name of the operator/lessee; Federal lease or license serial number(s); permit number; Federal lease and permit boundary lines; surface buildings; dip of the coal bed(s); true north; map scale; map explanation; location, diameter, and depth of auger holes; improvements; topography, including subsidence resulting from mining; geologic conditions as determined from outcrops, drill holes, exploration, or mining; any unusual geologic or other occurrences such as dikes, faults, splits, unusual water occurrences, or other conditions that may influence MER; and other information that the authorized officer may request. Copies of such maps shall be properly posted to date and furnished, in duplicate, to the authorized officer annually, or at such other times as the authorized officer requests. Copies of any maps, normally submitted to the regulatory authority, Mine Safety and Health Administration, or other State or Federal Agencies, that show all of the specific data required by this paragraph or paragraphs (b), (c), and (d) of this section shall be acceptable in fulfilling these requirements.

(b) *Underground mine maps.* Underground mine maps, in addition to the general requirements of paragraph (a) of this section, shall show all mine workings; the date of extension of the mine workings; an illustrative coal section at the face of each working unit; location of all surface mine fans; ventilation stoppings, doors, overcasts, undercasts, permanent seals, and regulators; direction of the ventilating current in the various parts of the mine at the time of making the latest surveys; sealed areas; known bodies of standing water in other mine workings, either in, above, or below the active workings of the mine; areas affected by squeezes; elevations of surface and underground levels of all shafts, slopes, or drifts, and elevation of the floor, bottom of the mine workings, or mine survey stations in the roof at regular intervals in

main entries, panels, or sections; and sump areas. Any maps submitted to the regulatory authority to be used to monitor subsidence shall also be submitted to the authorized officer.

(c) *Surface mine maps.* Surface mine maps, in addition to the general requirements of paragraph (a) of this section, shall include the date of extension of the mine workings and a detailed stratigraphic section at intervals specified in the approved resource recovery and protection plan. Such maps shall show areas from which coal has been removed; the highwall; fenders; uncovered, but unmined, coal beds; and elevation of the top of the coal beds.

(d) *Vertical projections and cross sections of mine workings.* When required by the authorized officer, vertical projections and cross sections shall accompany plan views.

(e) *Accuracy of maps.* The accuracy of maps furnished shall meet standards acceptable to the authorized officer and shall be certified by a professional engineer, professional land surveyor, or other such professionally qualified person.

(f) *Liability of operator/lessee for expense of survey.* If the operator/lessee fails to furnish a required or requested map within a reasonable time, the authorized officer, if necessary, shall employ a professionally qualified person to make the required survey and map, the cost of which shall be charged to, and promptly paid by, the operator/lessee.

(g) *Incorrect maps.* If any map submitted by an operator/lessee is believed to be incorrect, and the operator/lessee cannot verify the map or supply a corrected map, the authorized officer may employ a professionally qualified person to make a survey and any necessary maps. If the survey shows the maps submitted by the operator/lessee to be substantially incorrect, in whole or in part, the cost of making the survey and preparing the maps shall be charged to, and promptly paid by, the operator/lessee.